Client's ref.:90048 File:0548-6878usf/Vincent

WHAT IS CLAIMED IS:

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1. A method for estimating repair accuracy of a mask shop comprising the steps of:

providing a mask having a light-shielding layer with a pattern of a plurality of lines, each of which has a defect;

using the mask shop to repair the defects, whereby contaminated areas are formed in the vicinity of areas where the defects are repaired;

measuring first light intensities of the contaminated areas, and second and third light intensities of two sides of the contaminated areas; and

calculating ratios of means of the second and third light intensities to the first light intensities for estimating the repair accuracy.

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2. The method as claimed in claim 1 further comprising the step of:

calculating a mean and 3δ value of the ratios.

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3. The method as claimed in claim 1 wherein the lines comprise a plurality of vertical and horizontal lines.

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4. The method as claimed in claim 3 wherein widths of the lines range from 0.5 $\mu\,\mathrm{m}$ to 2 $\mu\,\mathrm{m}$.

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5. The method as claimed in claim 1 wherein widths of the defects along the lines range from 0.3 μ m to 1.5 μ m.

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1	6. Th	e method	as	claimed	in	claim	1	wherein	the	defects
2	are indent	ations o	n t	he lines						

7. The method as claimed in claim 1 wherein the light shielding layer is a chrome layer.